

FEE TRANSMITTAL for FY 2001				Complete if Known																																																																																																																																																																																																																																																																																																					
<i>Patent fees are subject to annual revision.</i>				<div style="float: right; border: 1px solid black; padding: 5px; transform: rotate(-15deg);"> RECEIVED JAN 11 2001 </div> <div style="clear: both;"></div>																																																																																																																																																																																																																																																																																																					
Application Number		09/376,431		Filing Date		August 18, 1999																																																																																																																																																																																																																																																																																																			
First Named Inventor		MOORE et al.		Examiner Name		O'Hara E.																																																																																																																																																																																																																																																																																																			
Group Art Unit		1646		Attorney Docket Number		PF466P1																																																																																																																																																																																																																																																																																																			
Total amount of payment		(\$ 1,130.00)																																																																																																																																																																																																																																																																																																							
METHOD OF PAYMENT (CHECK ONE)				FEE CALCULATION (CONTINUED)																																																																																																																																																																																																																																																																																																					
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to: Deposit Account Number 08-3425 Deposit Account Name Human Genome Sciences, Inc. <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17 <input type="checkbox"/> Applicant claims small entity status See 37 CFR 1.27 2. <input type="checkbox"/> Payment Enclosed: <input type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input checked="" type="checkbox"/> Other* * Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 08-3425				3. ADDITIONAL FEES <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for <i>ex parte</i> reexamination</td><td></td></tr> <tr><td>112</td><td>920</td><td>112</td><td>920</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840</td><td>113</td><td>1,840</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>390</td><td>216</td><td>195</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>890</td><td>217</td><td>445</td><td>Extension for reply within third month</td><td>\$ 890.00</td></tr> <tr><td>118</td><td>1,390</td><td>218</td><td>695</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,890</td><td>228</td><td>945</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>310</td><td>219</td><td>155</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>310</td><td>220</td><td>155</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>270</td><td>221</td><td>135</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive -unavoidable</td><td></td></tr> <tr><td>141</td><td>1,240</td><td>241</td><td>620</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>142</td><td>1,240</td><td>242</td><td>620</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>440</td><td>243</td><td>220</td><td>Design issue fee</td><td></td></tr> <tr><td>144</td><td>600</td><td>244</td><td>300</td><td>Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of Information Disclosure Statement</td><td>\$ 240.00</td></tr> <tr><td>581</td><td>40</td><td>481</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>710</td><td>246</td><td>355</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>149</td><td>710</td><td>249</td><td>355</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td>179</td><td>710</td><td>279</td><td>355</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>169</td><td>190</td><td>169</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr> <tr><td colspan="4"></td><td>Other fee (specify):.....</td><td></td></tr> <tr><td colspan="4"></td><td>Other fee (specify):.....</td><td></td></tr> <tr><td colspan="4"></td><td>*Reduced by Basic Filing Fee Paid</td><td></td></tr> <tr> <td colspan="4" style="text-align: center;">Subtotal (1)</td> <td colspan="2" style="text-align: center;">\$</td> <td colspan="2"></td> </tr> <tr> <td colspan="4"> 2. EXTRA CLAIM FEES <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Extra</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Total claims 78</td> <td>- 85**</td> <td>0</td> <td>\$ 0.00</td> </tr> <tr> <td>Indep. claims 9</td> <td>- 11**</td> <td>0</td> <td>0.00</td> </tr> <tr> <td>Multiple Dependent 0</td> <td>0</td> <td>0</td> <td>0.00</td> </tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td></tr> <tr><td>102</td><td>80</td><td>202</td><td>40</td><td>Independent claims in excess of 3</td></tr> <tr><td>104</td><td>270</td><td>204</td><td>135</td><td>Multiple dependent claim</td></tr> <tr><td>108</td><td>80</td><td>209</td><td>40</td><td>**Reissue independent claims over original patent</td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td><td>**Reissue claims in excess of 20 and over original patent</td></tr> </tbody> </table> Subtotal (2) (\$ 0.00) </td> <td colspan="4"></td> </tr> <tr> <td colspan="4" style="text-align: center;">Subtotal (3)</td> <td colspan="2" style="text-align: center;">\$ 1,130.00</td> <td colspan="2"></td> </tr> <tr> <td colspan="4">Submitted By</td> <td colspan="4" style="text-align: right;">Complete (if applicable)</td> </tr> <tr> <td colspan="4">Name (Print/Type) Michele M. Wales</td> <td colspan="2">Registration No.: 43,975</td> <td colspan="2">Telephone 301-610-5772</td> </tr> <tr> <td colspan="4">Signature: <i>Michele M. Wales</i></td> <td colspan="2"></td> <td colspan="2">Date 01/05/01</td> </tr> </tbody> </table>				Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	105	130	205	65	Surcharge - late provisional filing fee or cover sheet		127	50	227	25	Surcharge - late provisional filing fee or cover sheet		139	130	139	130	Non-English specification		147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination		112	920	112	920	Requesting publication of SIR prior to Examiner action		113	1,840	113	1,840	Requesting publication of SIR after Examiner action		115	110	215	55	Extension for reply within first month		116	390	216	195	Extension for reply within second month		117	890	217	445	Extension for reply within third month	\$ 890.00	118	1,390	218	695	Extension for reply within fourth month		128	1,890	228	945	Extension for reply within fifth month		119	310	219	155	Notice of Appeal		120	310	220	155	Filing a brief in support of an appeal		121	270	221	135	Request for oral hearing		138	1,510	138	1,510	Petition to institute a public use proceeding		140	110	240	55	Petition to revive -unavoidable		141	1,240	241	620	Petition to revive - unintentional		142	1,240	242	620	Utility issue fee (or reissue)		143	440	243	220	Design issue fee		144	600	244	300	Plant issue fee		122	130	122	130	Petitions to the Commissioner		123	50	123	50	Petitions related to provisional applications		126	240	126	240	Submission of Information Disclosure Statement	\$ 240.00	581	40	481	40	Recording each patent assignment per property (times number of properties)		146	710	246	355	Filing a submission after final rejection (37 CFR 1.129(a))		149	710	249	355	For each additional invention to be examined (37 CFR 1.129(b))		179	710	279	355	Request for Continued Examination (RCE)		169	190	169	900	Request for expedited examination of a design application						Other fee (specify):.....						Other fee (specify):.....						*Reduced by Basic Filing Fee Paid		Subtotal (1)				\$				2. EXTRA CLAIM FEES <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Extra</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Total claims 78</td> <td>- 85**</td> <td>0</td> <td>\$ 0.00</td> </tr> <tr> <td>Indep. claims 9</td> <td>- 11**</td> <td>0</td> <td>0.00</td> </tr> <tr> <td>Multiple Dependent 0</td> <td>0</td> <td>0</td> <td>0.00</td> </tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td></tr> <tr><td>102</td><td>80</td><td>202</td><td>40</td><td>Independent claims in excess of 3</td></tr> <tr><td>104</td><td>270</td><td>204</td><td>135</td><td>Multiple dependent claim</td></tr> <tr><td>108</td><td>80</td><td>209</td><td>40</td><td>**Reissue independent claims over original patent</td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td><td>**Reissue claims in excess of 20 and over original patent</td></tr> </tbody> </table> Subtotal (2) (\$ 0.00)					Extra	Fee from below	Fee Paid	Total claims 78	- 85**	0	\$ 0.00	Indep. claims 9	- 11**	0	0.00	Multiple Dependent 0	0	0	0.00	Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	103	18	203	9	Claims in excess of 20	102	80	202	40	Independent claims in excess of 3	104	270	204	135	Multiple dependent claim	108	80	209	40	**Reissue independent claims over original patent	110	18	210	9	**Reissue claims in excess of 20 and over original patent					Subtotal (3)				\$ 1,130.00				Submitted By				Complete (if applicable)				Name (Print/Type) Michele M. Wales				Registration No.: 43,975		Telephone 301-610-5772		Signature: <i>Michele M. Wales</i>						Date 01/05/01	
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																																																																																																																																																				
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																																																																																																																																						
105	130	205	65	Surcharge - late provisional filing fee or cover sheet																																																																																																																																																																																																																																																																																																					
127	50	227	25	Surcharge - late provisional filing fee or cover sheet																																																																																																																																																																																																																																																																																																					
139	130	139	130	Non-English specification																																																																																																																																																																																																																																																																																																					
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination																																																																																																																																																																																																																																																																																																					
112	920	112	920	Requesting publication of SIR prior to Examiner action																																																																																																																																																																																																																																																																																																					
113	1,840	113	1,840	Requesting publication of SIR after Examiner action																																																																																																																																																																																																																																																																																																					
115	110	215	55	Extension for reply within first month																																																																																																																																																																																																																																																																																																					
116	390	216	195	Extension for reply within second month																																																																																																																																																																																																																																																																																																					
117	890	217	445	Extension for reply within third month	\$ 890.00																																																																																																																																																																																																																																																																																																				
118	1,390	218	695	Extension for reply within fourth month																																																																																																																																																																																																																																																																																																					
128	1,890	228	945	Extension for reply within fifth month																																																																																																																																																																																																																																																																																																					
119	310	219	155	Notice of Appeal																																																																																																																																																																																																																																																																																																					
120	310	220	155	Filing a brief in support of an appeal																																																																																																																																																																																																																																																																																																					
121	270	221	135	Request for oral hearing																																																																																																																																																																																																																																																																																																					
138	1,510	138	1,510	Petition to institute a public use proceeding																																																																																																																																																																																																																																																																																																					
140	110	240	55	Petition to revive -unavoidable																																																																																																																																																																																																																																																																																																					
141	1,240	241	620	Petition to revive - unintentional																																																																																																																																																																																																																																																																																																					
142	1,240	242	620	Utility issue fee (or reissue)																																																																																																																																																																																																																																																																																																					
143	440	243	220	Design issue fee																																																																																																																																																																																																																																																																																																					
144	600	244	300	Plant issue fee																																																																																																																																																																																																																																																																																																					
122	130	122	130	Petitions to the Commissioner																																																																																																																																																																																																																																																																																																					
123	50	123	50	Petitions related to provisional applications																																																																																																																																																																																																																																																																																																					
126	240	126	240	Submission of Information Disclosure Statement	\$ 240.00																																																																																																																																																																																																																																																																																																				
581	40	481	40	Recording each patent assignment per property (times number of properties)																																																																																																																																																																																																																																																																																																					
146	710	246	355	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																																																																																																																																																					
149	710	249	355	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																																																																																																																																																					
179	710	279	355	Request for Continued Examination (RCE)																																																																																																																																																																																																																																																																																																					
169	190	169	900	Request for expedited examination of a design application																																																																																																																																																																																																																																																																																																					
				Other fee (specify):.....																																																																																																																																																																																																																																																																																																					
				Other fee (specify):.....																																																																																																																																																																																																																																																																																																					
				*Reduced by Basic Filing Fee Paid																																																																																																																																																																																																																																																																																																					
Subtotal (1)				\$																																																																																																																																																																																																																																																																																																					
2. EXTRA CLAIM FEES <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Extra</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Total claims 78</td> <td>- 85**</td> <td>0</td> <td>\$ 0.00</td> </tr> <tr> <td>Indep. claims 9</td> <td>- 11**</td> <td>0</td> <td>0.00</td> </tr> <tr> <td>Multiple Dependent 0</td> <td>0</td> <td>0</td> <td>0.00</td> </tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td></tr> <tr><td>102</td><td>80</td><td>202</td><td>40</td><td>Independent claims in excess of 3</td></tr> <tr><td>104</td><td>270</td><td>204</td><td>135</td><td>Multiple dependent claim</td></tr> <tr><td>108</td><td>80</td><td>209</td><td>40</td><td>**Reissue independent claims over original patent</td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td><td>**Reissue claims in excess of 20 and over original patent</td></tr> </tbody> </table> Subtotal (2) (\$ 0.00)					Extra	Fee from below	Fee Paid	Total claims 78	- 85**	0	\$ 0.00	Indep. claims 9	- 11**	0	0.00	Multiple Dependent 0	0	0	0.00	Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	103	18	203	9	Claims in excess of 20	102	80	202	40	Independent claims in excess of 3	104	270	204	135	Multiple dependent claim	108	80	209	40	**Reissue independent claims over original patent	110	18	210	9	**Reissue claims in excess of 20 and over original patent																																																																																																																																																																																																																																																								
	Extra	Fee from below	Fee Paid																																																																																																																																																																																																																																																																																																						
Total claims 78	- 85**	0	\$ 0.00																																																																																																																																																																																																																																																																																																						
Indep. claims 9	- 11**	0	0.00																																																																																																																																																																																																																																																																																																						
Multiple Dependent 0	0	0	0.00																																																																																																																																																																																																																																																																																																						
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description																																																																																																																																																																																																																																																																																																					
103	18	203	9	Claims in excess of 20																																																																																																																																																																																																																																																																																																					
102	80	202	40	Independent claims in excess of 3																																																																																																																																																																																																																																																																																																					
104	270	204	135	Multiple dependent claim																																																																																																																																																																																																																																																																																																					
108	80	209	40	**Reissue independent claims over original patent																																																																																																																																																																																																																																																																																																					
110	18	210	9	**Reissue claims in excess of 20 and over original patent																																																																																																																																																																																																																																																																																																					
Subtotal (3)				\$ 1,130.00																																																																																																																																																																																																																																																																																																					
Submitted By				Complete (if applicable)																																																																																																																																																																																																																																																																																																					
Name (Print/Type) Michele M. Wales				Registration No.: 43,975		Telephone 301-610-5772																																																																																																																																																																																																																																																																																																			
Signature: <i>Michele M. Wales</i>						Date 01/05/01																																																																																																																																																																																																																																																																																																			

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.